

FIGURE 1A

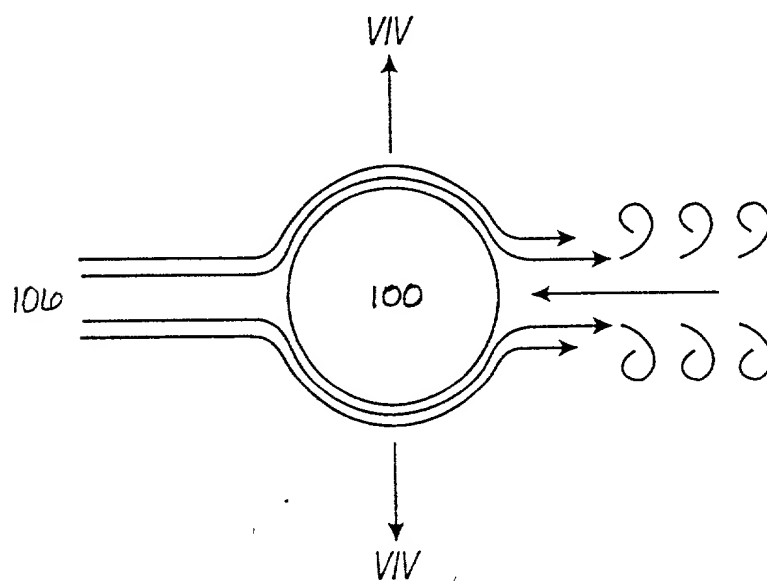


FIGURE 1B

FIG. 2A

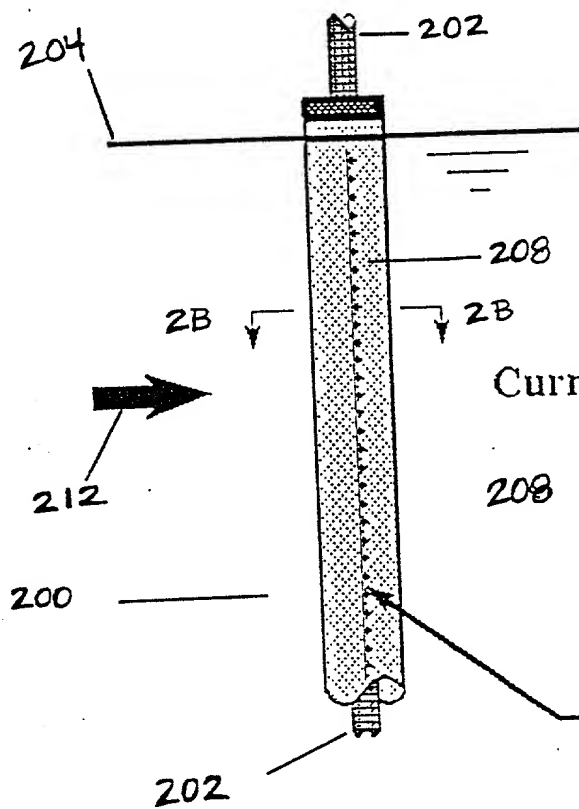


FIGURE 2A

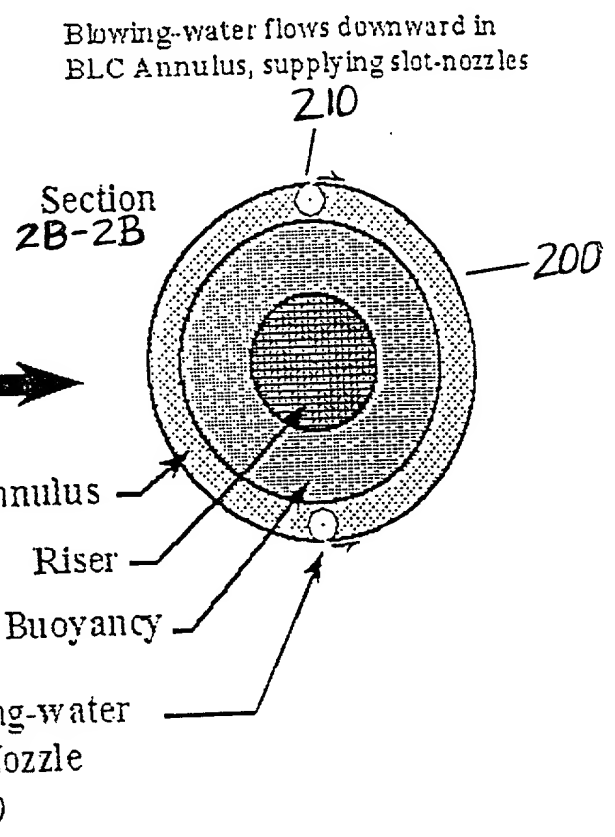


FIGURE 2B

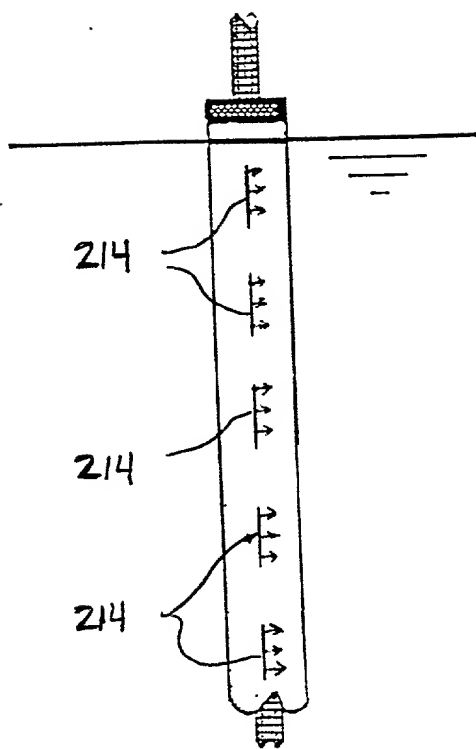


FIGURE 2C

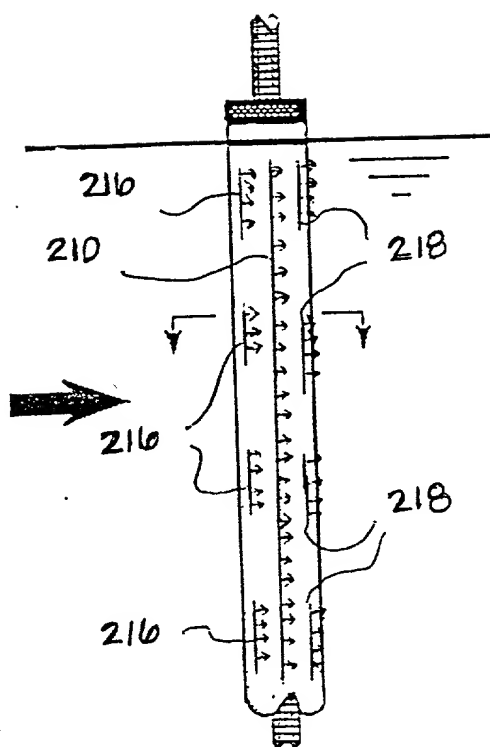
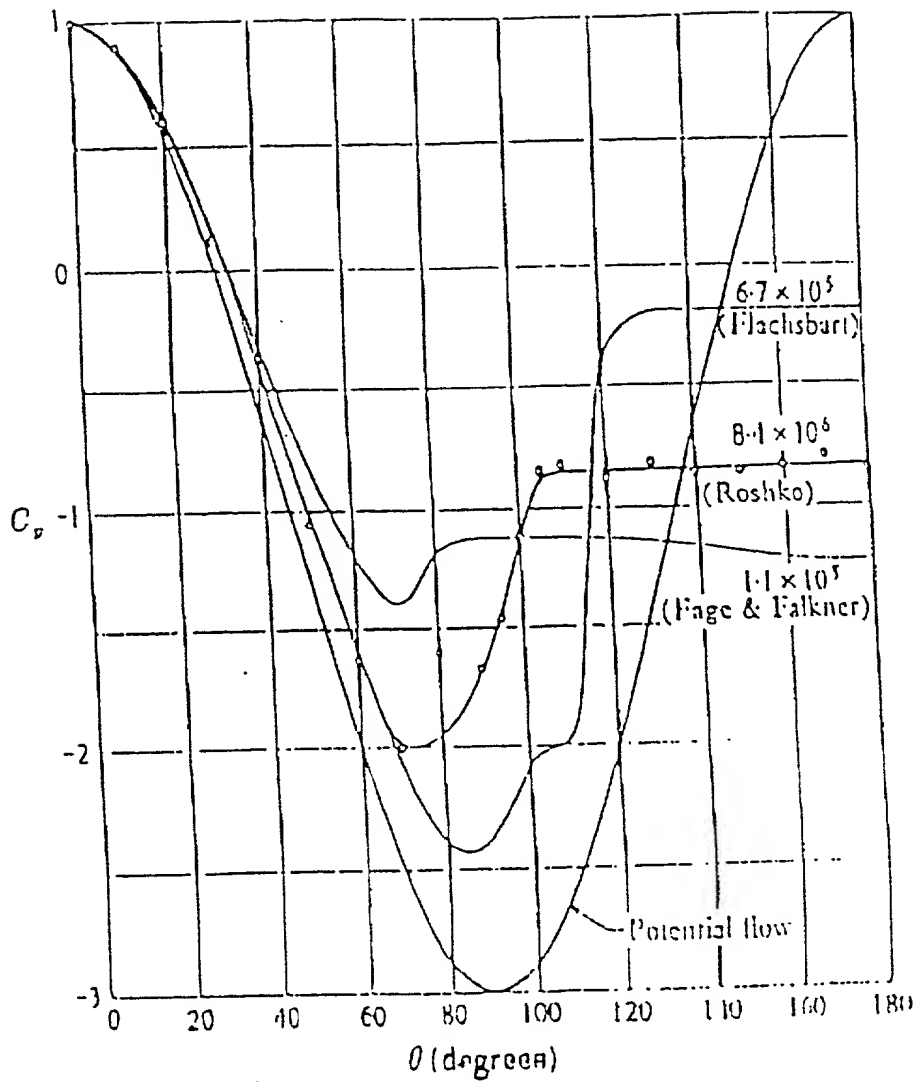
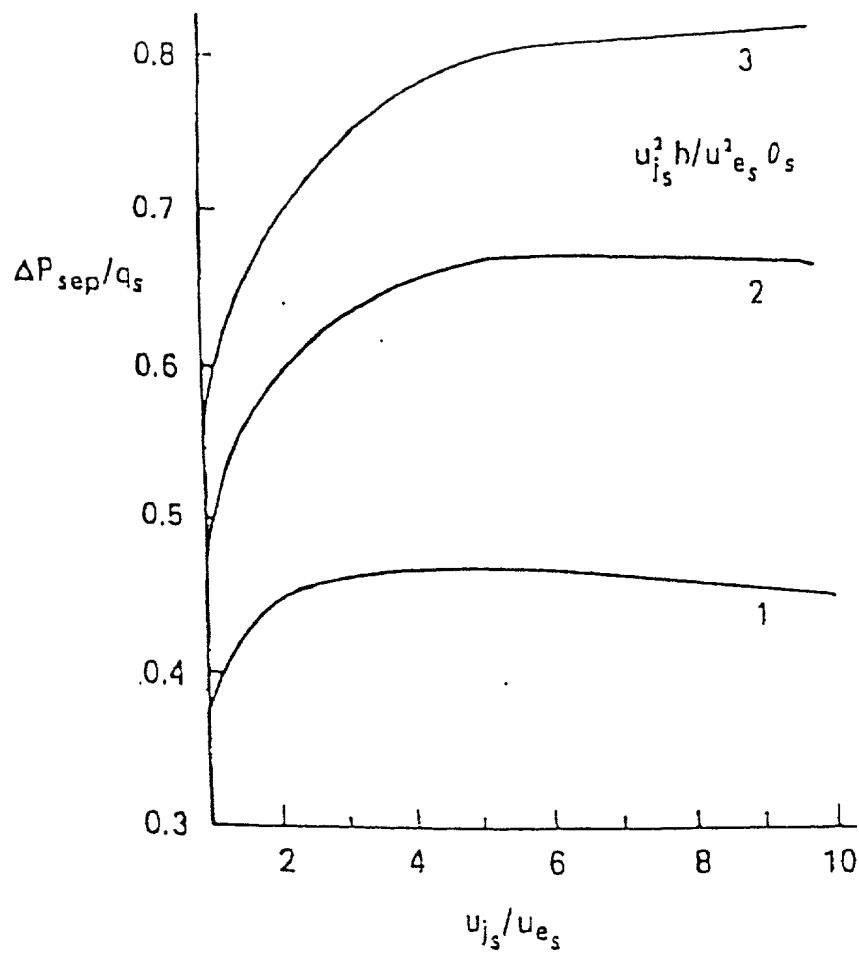


FIGURE 2D



**FIG. 3 Pressure Distribution on a circular cylinder**



**FIG. 4. Pressure rise to separation**  
(From Hubbart & Bangert, 1970).

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**FIG. 5 Drilling Riser BLC System**  
Preliminary Characteristics Estimates

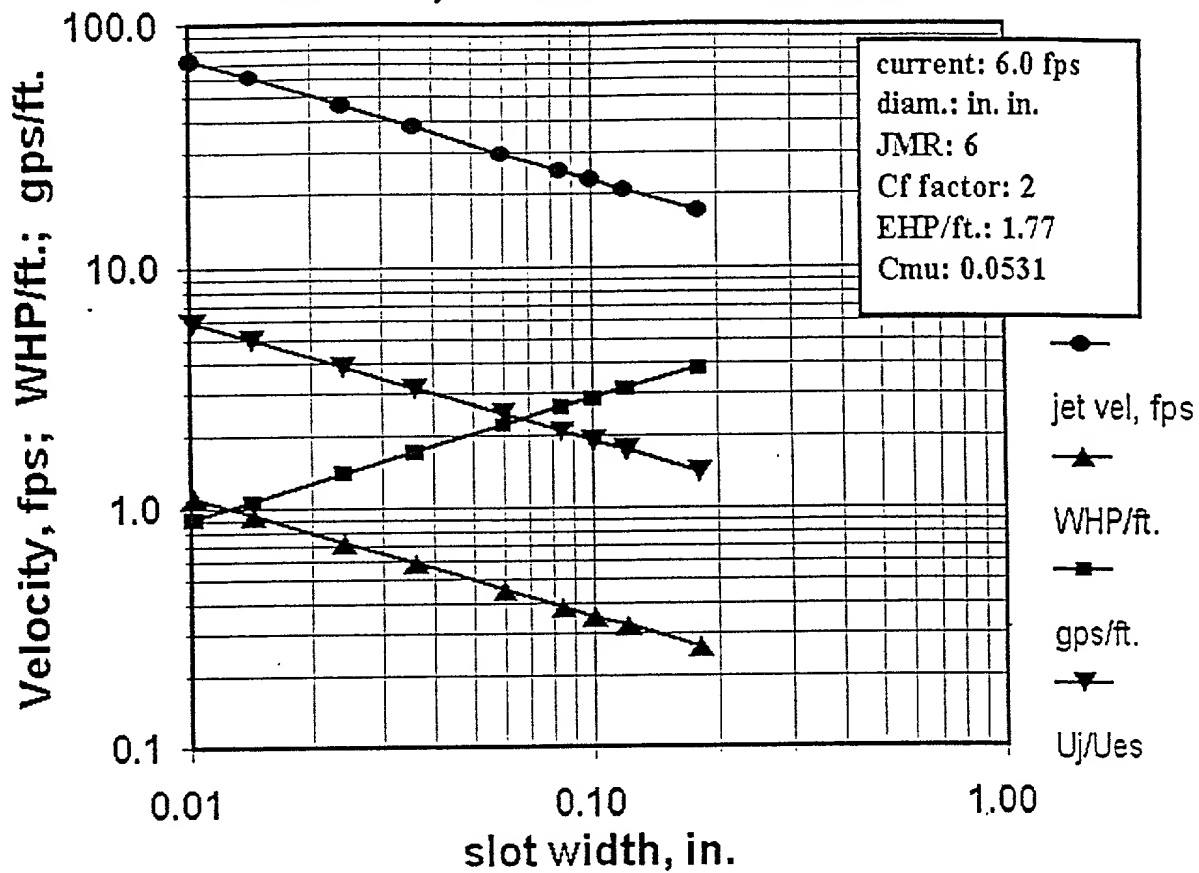


FIG. 6A

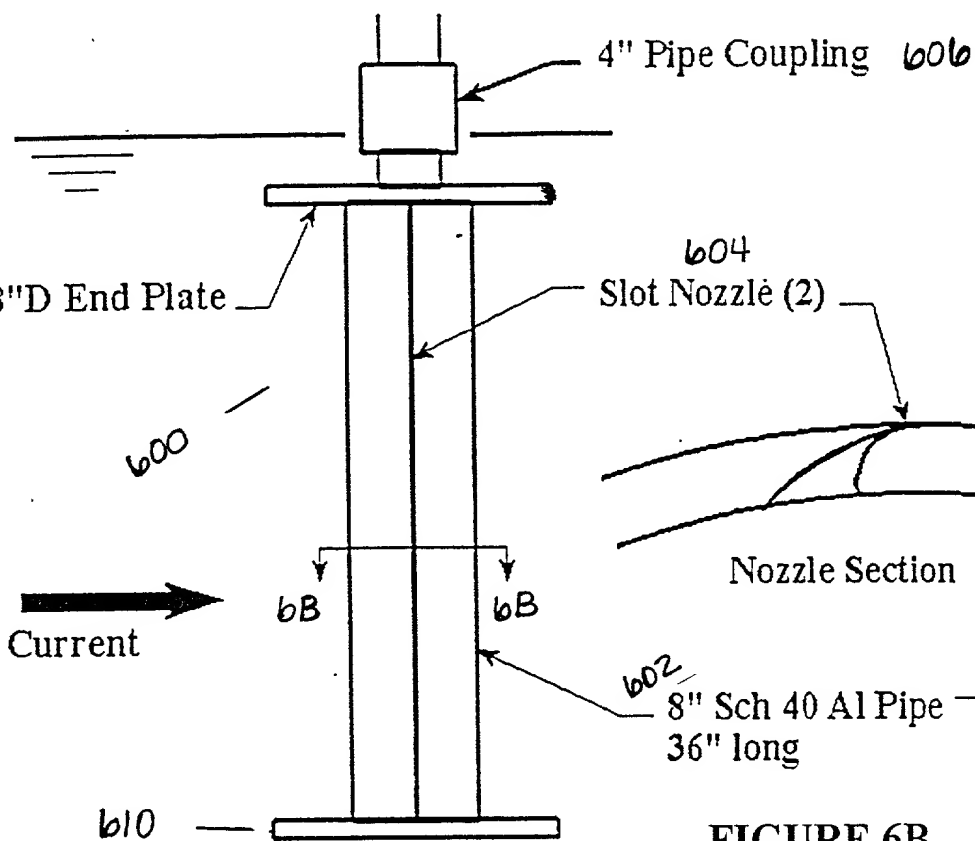
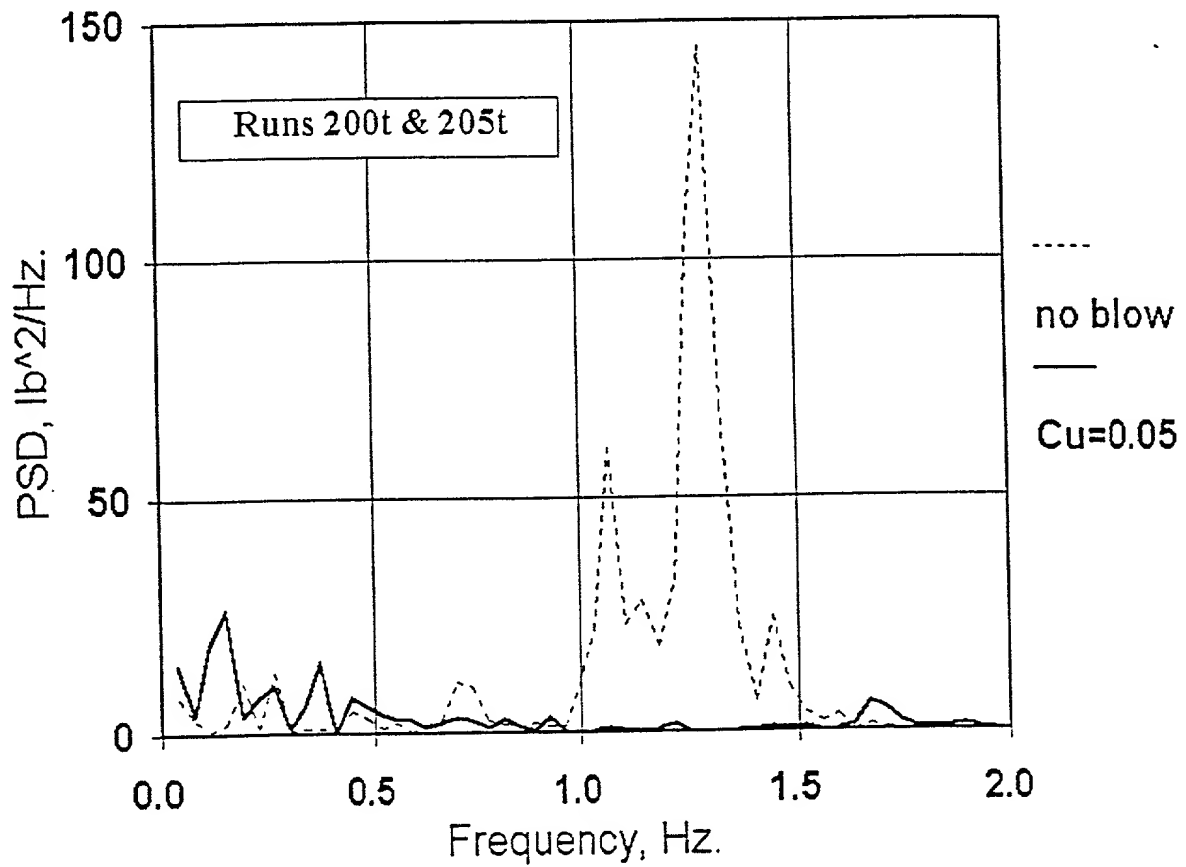


FIGURE 6A

FIGURE 6B

FIGURE 7. VIV Lateral Force PSD; 5 fps

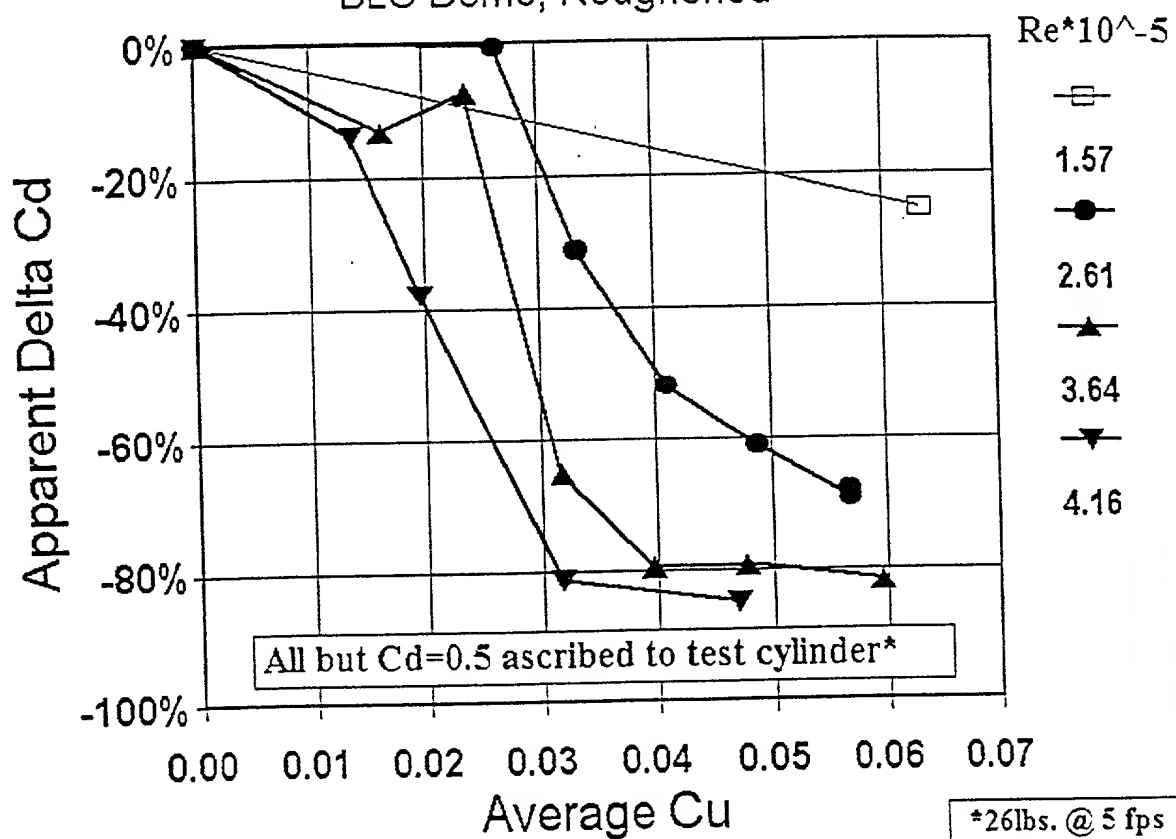




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FIGURE 8. Apparent Delta Cd vs Cu & Re

BLC Demo, Roughened



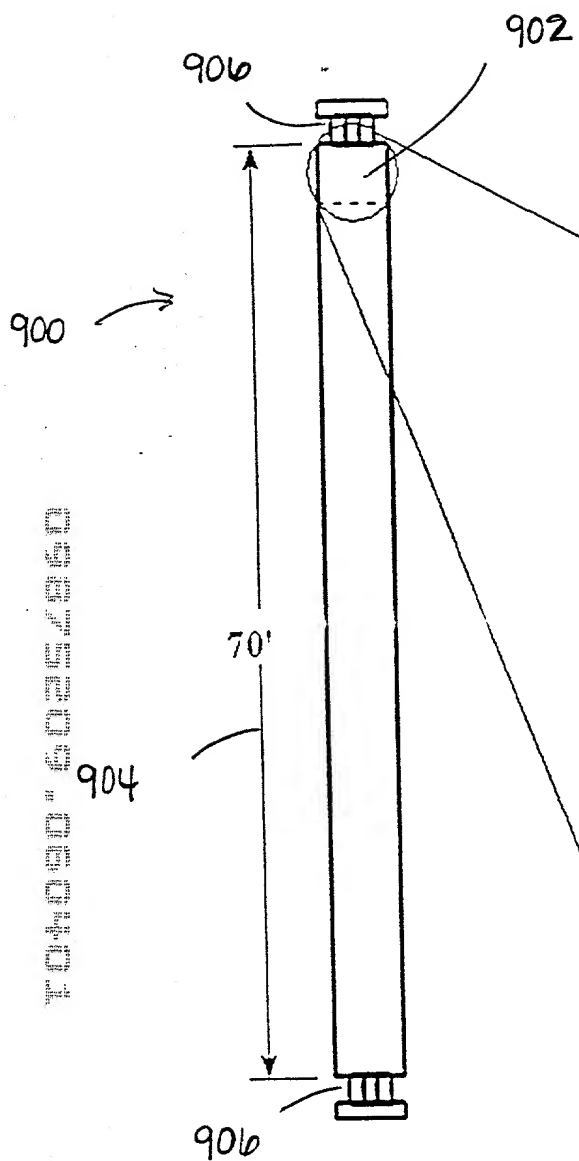


FIGURE 9A

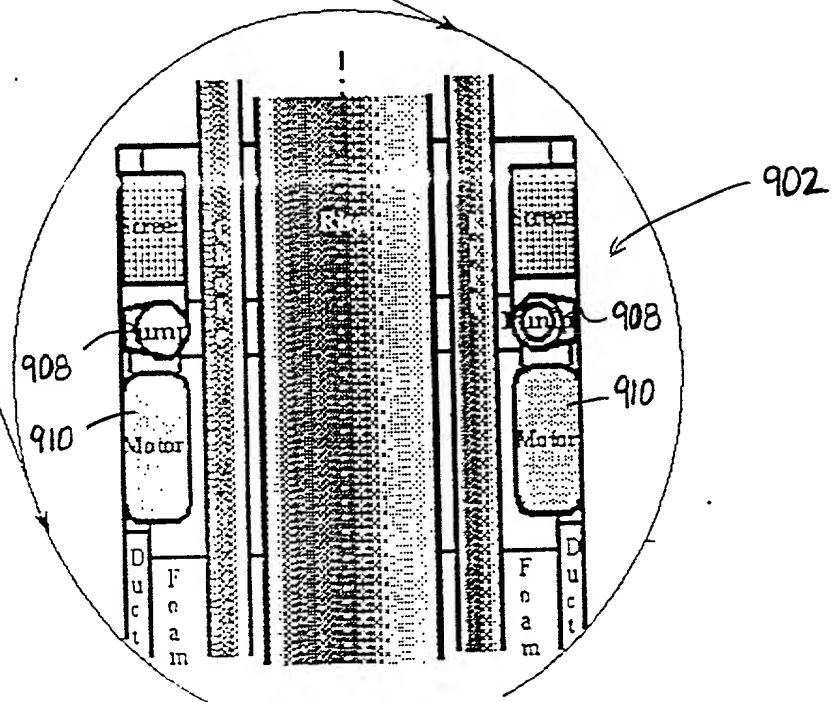


FIGURE 9B

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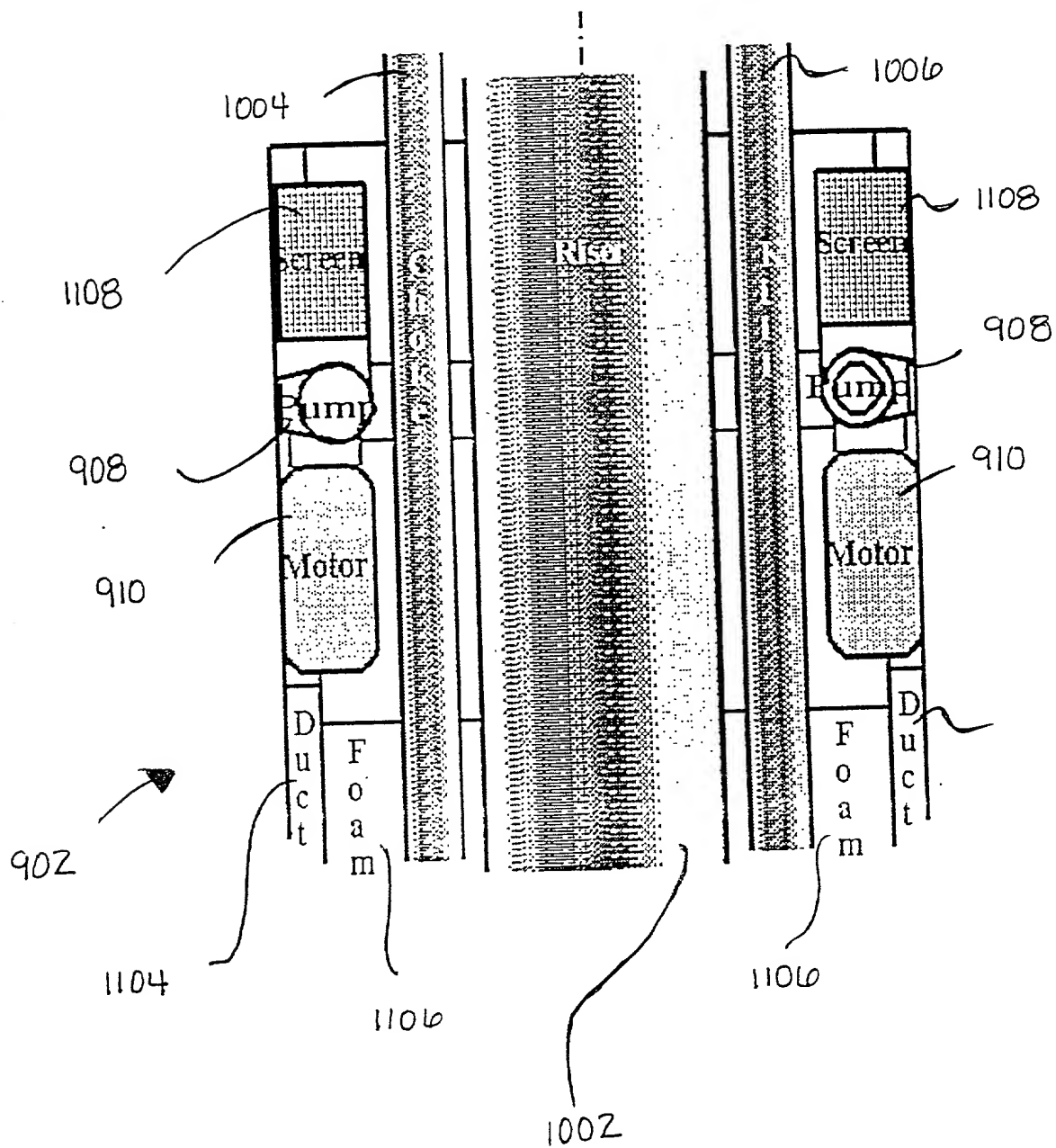


FIGURE 10

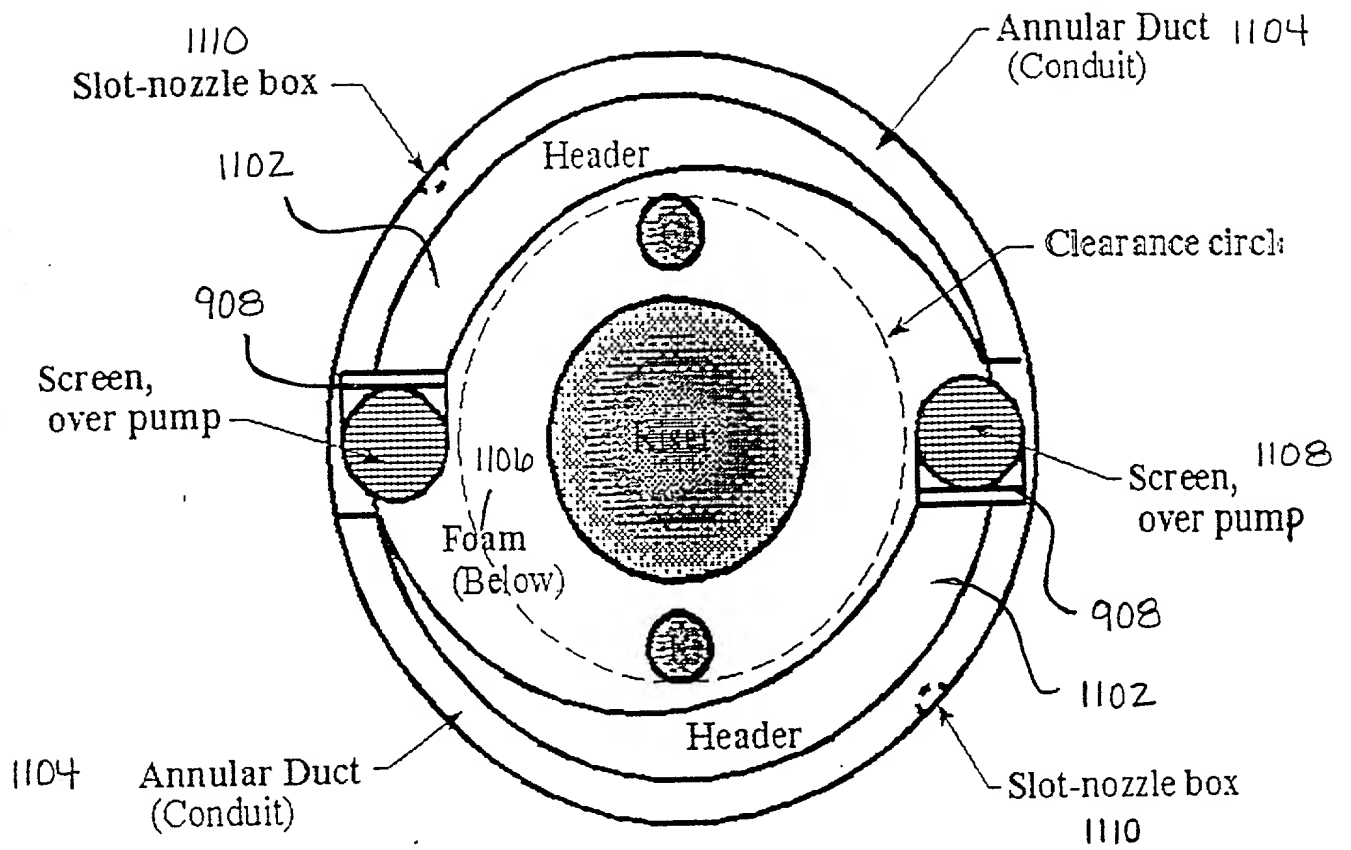


FIGURE 11

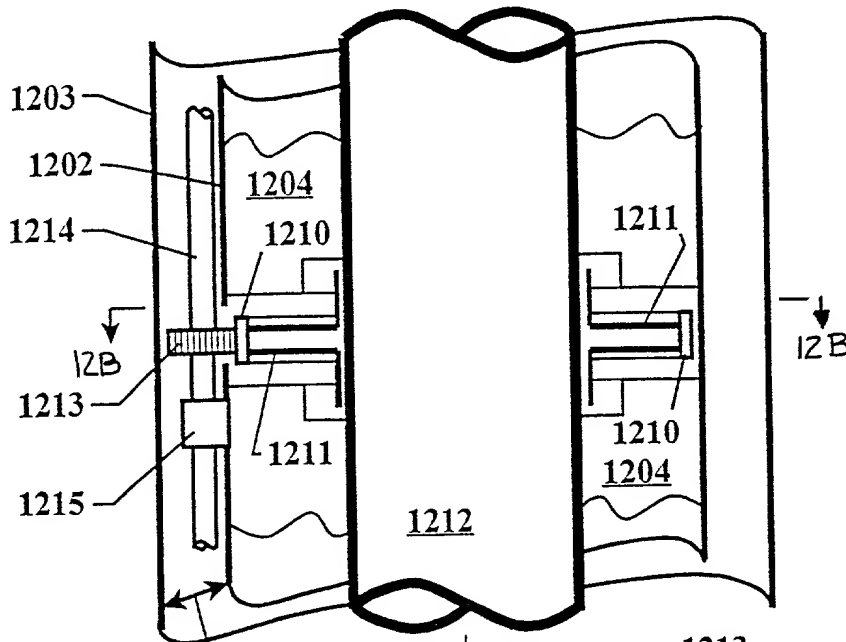


FIGURE 12A

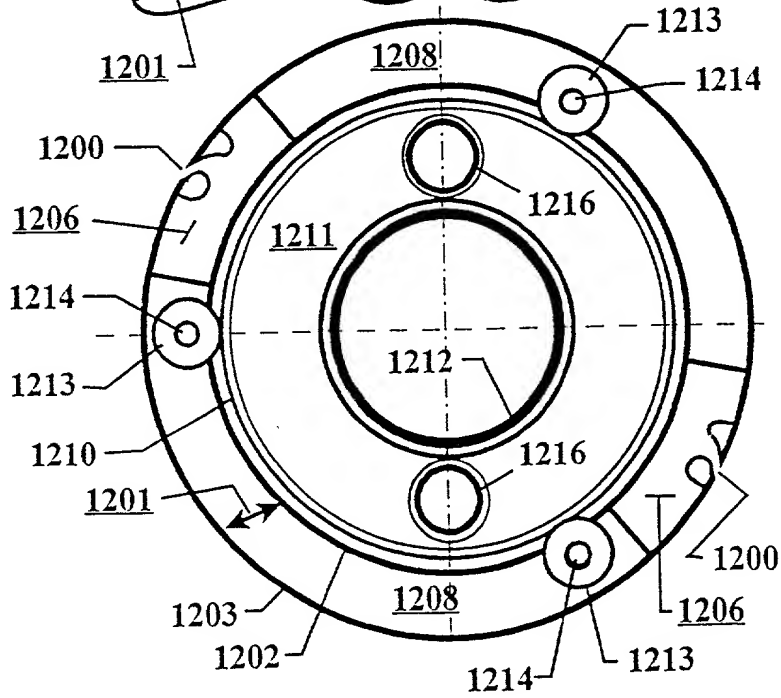
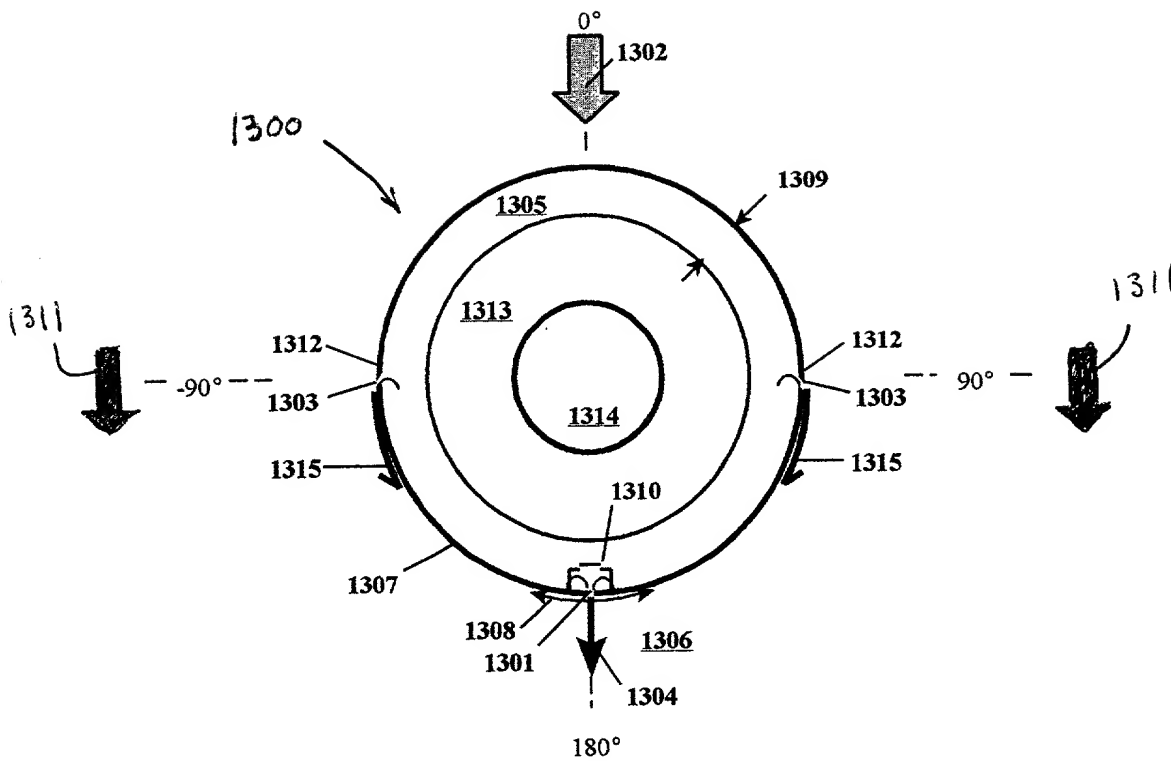


FIGURE 12B



**Figure 13**

FIG. 14A

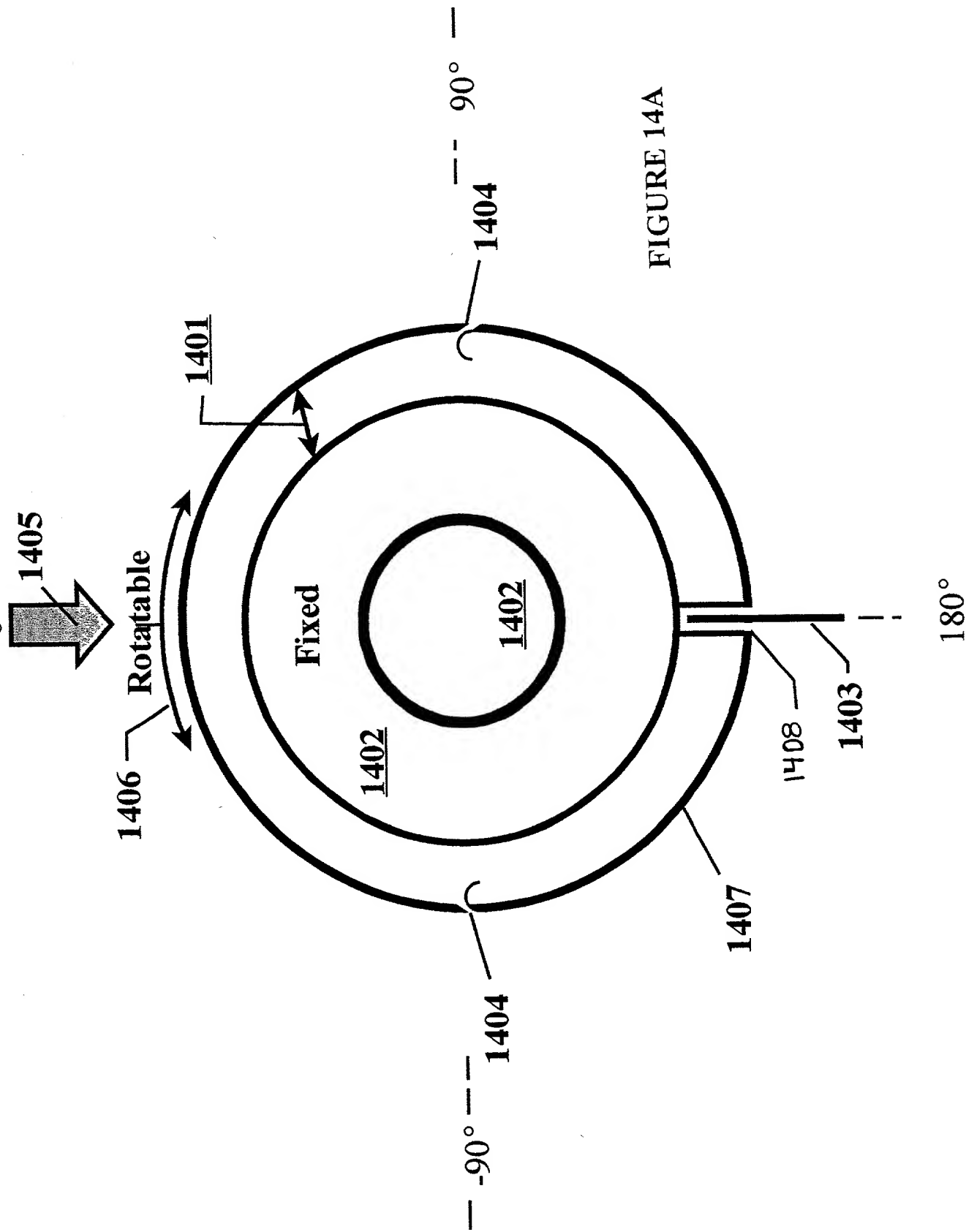


FIGURE 14A

FIGURE 14B

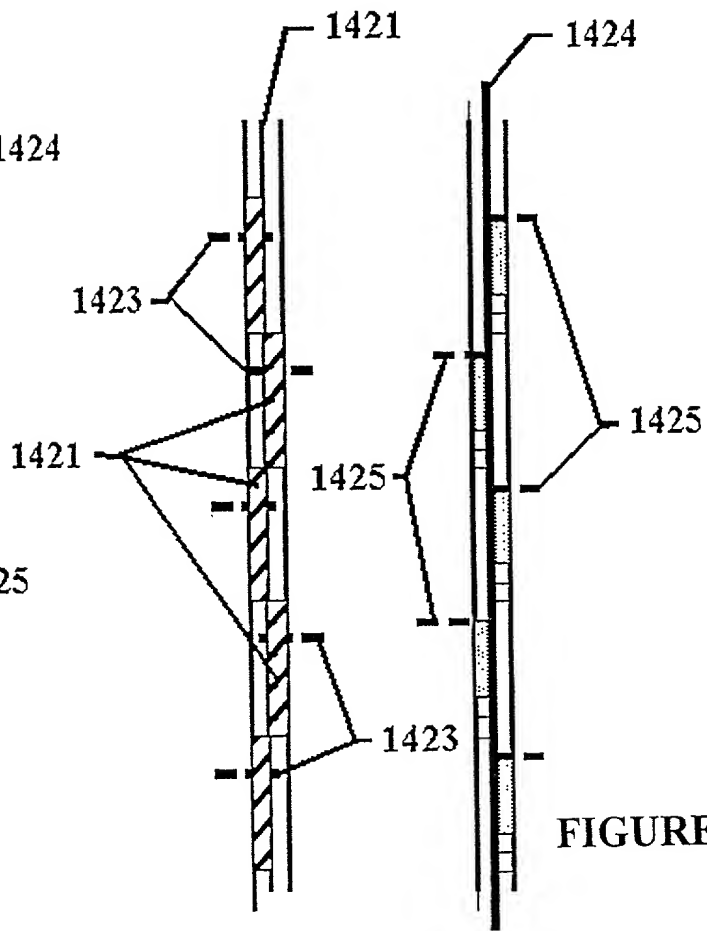
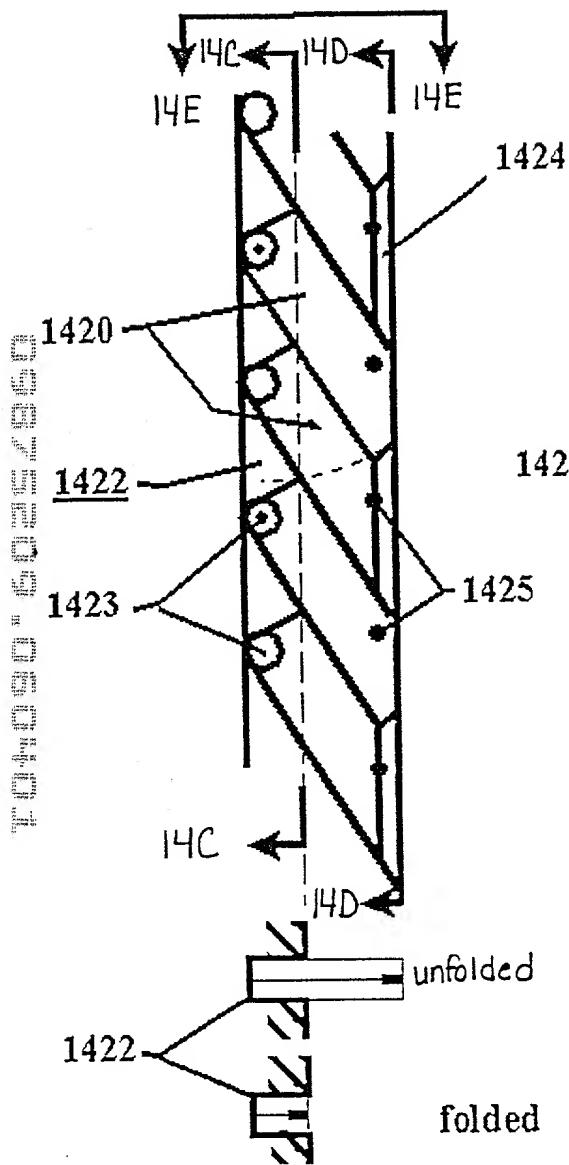


FIGURE 14E

Folding Tail-Fin  
for Riser BLC and  
similar applications



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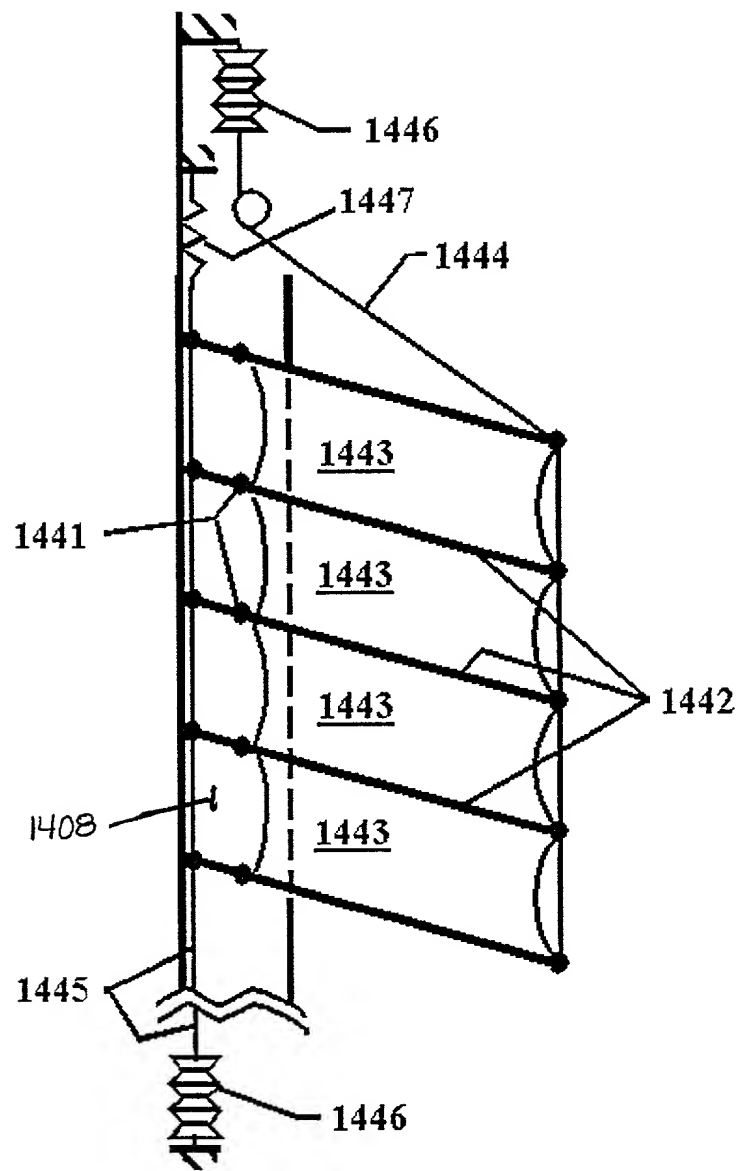
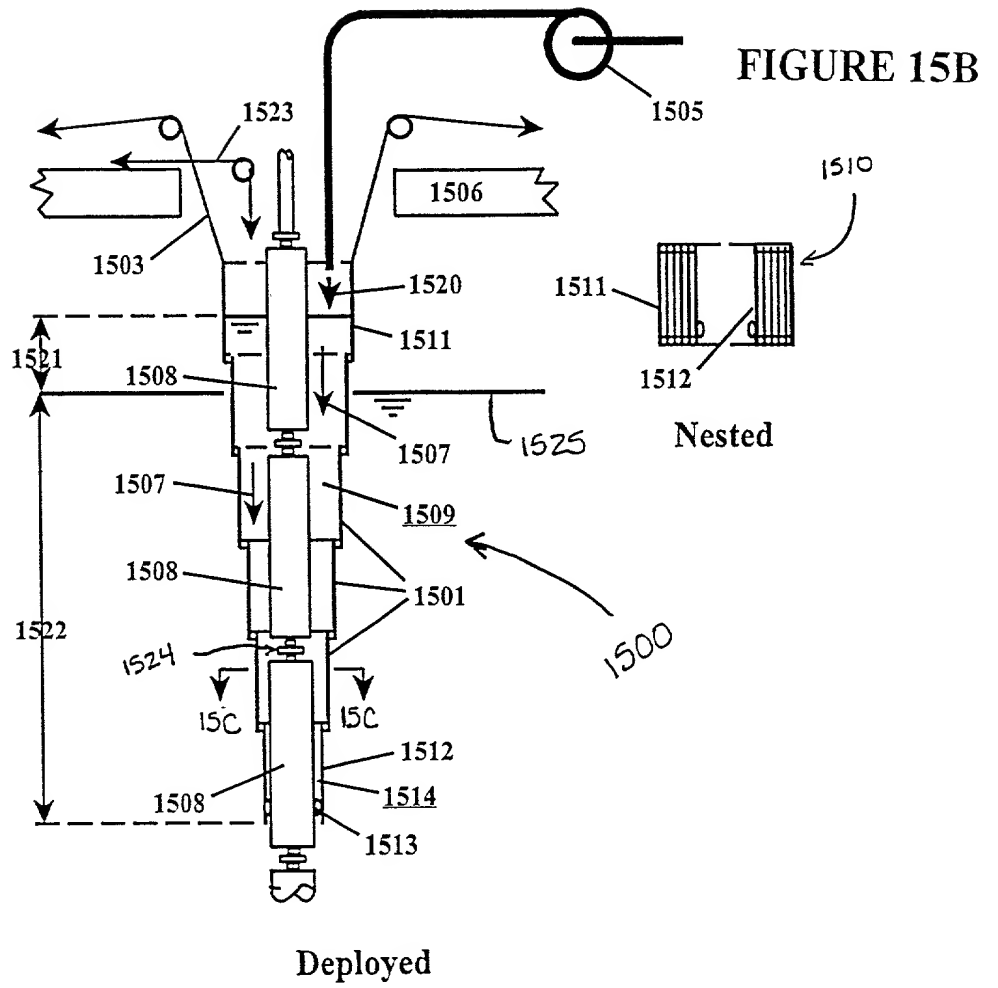


FIGURE 14F

FIG. 15A



**FIGURE 15A**

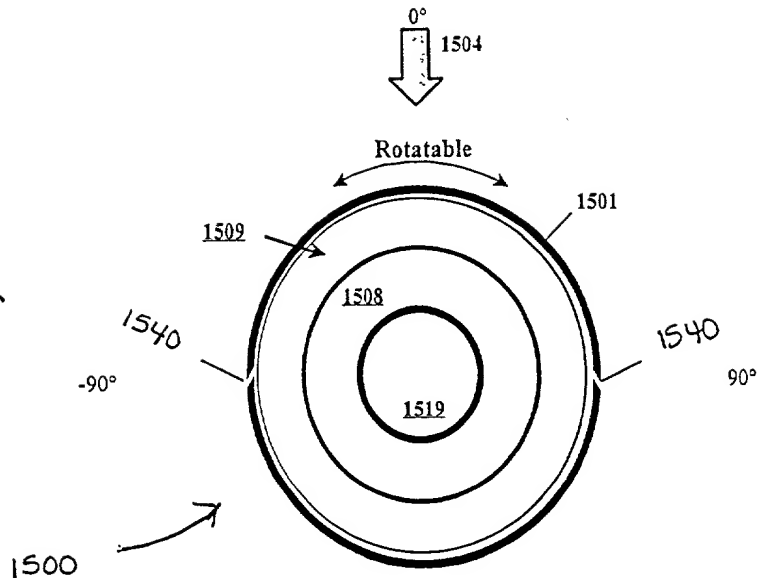


FIG. 15C Drilling Riser BLC, Telescoping Sheath Section

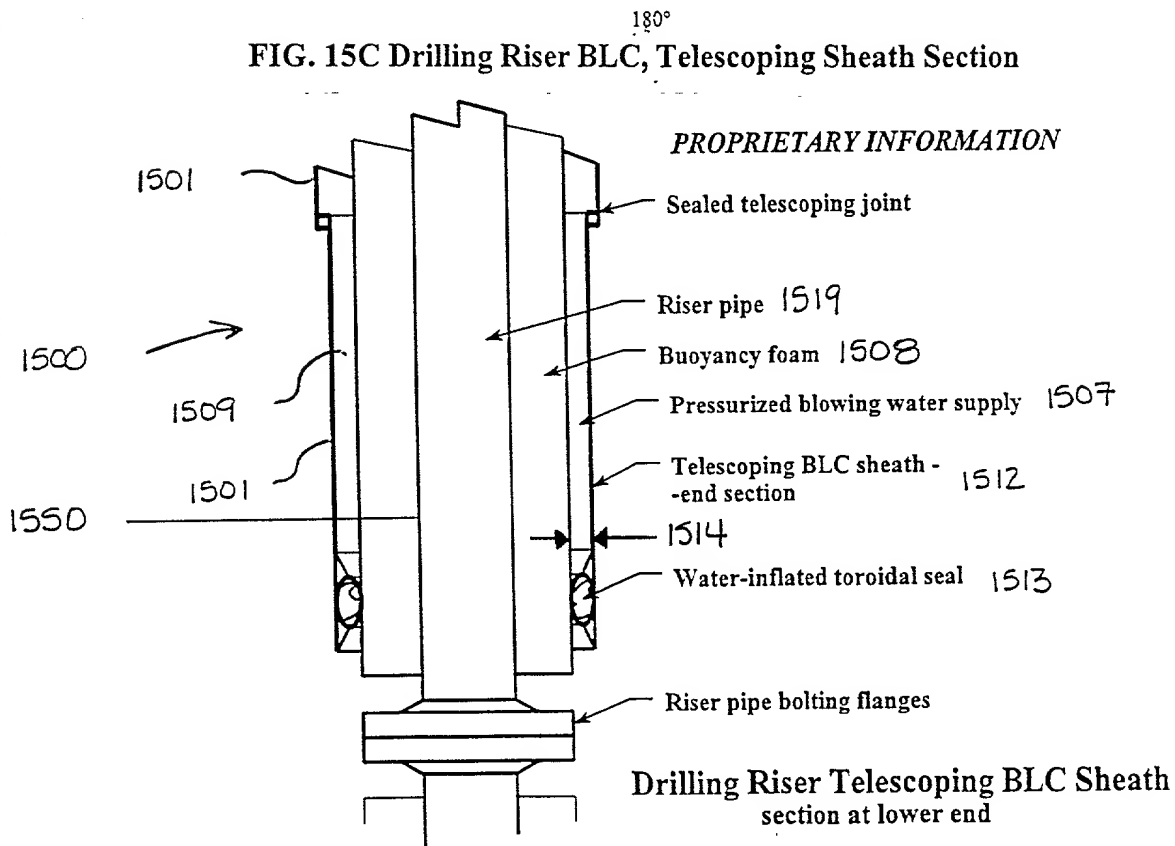


FIG. 15D Drilling Riser BLC, Telescoping Sheath Lower End

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